

I N D I R E C T   A I R   C A R R I E R   C E R T I F I C A T E

INTERGLOBAL FORWARDING SERVICES INC  
1A COLONY ROAD  
JERSEY CITY, NJ 07305  
FMC # 2747  
TELEPHONE NUMBER : 2018588560  
TSA APPROVAL NUMBER: EA9402060

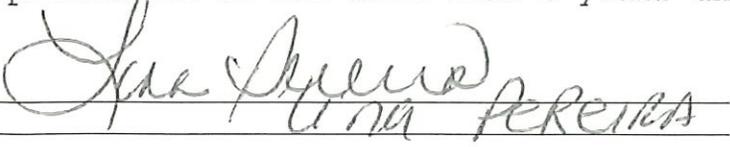
Airline: C.A.L. CARGO AIR LINES LTD

Air Waybill : 700-74118203      Our Reference: 02FFAE23111281  
Scheduled Flt: 0532      Departure : 06 DEC 23  
Origin : JFK      Destination : TLV  
Pieces : 17      Gross Wt : 4904.2 K

Total Number and name of each unknown shipper represented is 0

Items being offered for transportation less than 16ounces 0

"INTERGLOBAL FORWARDING SERVICES INC is in compliance with its TSA-approved security program and all applicable security directives. Our number assigned by TSA is EA9402060. All cargo tendered in conjunction with this certification was either 1) accepted from a known shipper or an unknown shipper in accordance with TSA requirements specified in the Indirect Air Carrier Standard Security Program or 2) accepted under transfer from another aircraft operator, foreign air carrier, or IAC operating under a TSA-approved or accepted security program. The individual whose name appears below certifies that he or she is an employee or authorized representative of INTERGLOBAL FORWARDING SERVICES INC and understands that any fraudulent or false statement made in connection with this certification may subject this individual and INTERGLOBAL FORWARDING SERVICES INC to both (1) civil penalties under 49 CFR 1540.103(b) and (2) fines and/or imprisonment of not more than 5 years under 18 USC 1001."

Signature of IAC Rep.  Date 12/1/23  
Print name of IAC Rep. ANA PEREIRA

Accepting Airline: C.A.L. CARGO AIR LINES LTD  
Airline representative's Signature and ID number: \_\_\_\_\_

700 | JFK | 7411 8203

700-74118203

Shipper's Name and Address <b>OLIN CORP WINCHESTER DIV 600 POWDER MILL ROAD EAST ALTON IL 62024 13-1872319</b>		Shipper's Account Number		Not Negotiable <b>CAL CARGO AILINES LTD Air Waybill C/O LUFTHANSA BUILDING 261 JFK INTL AIRPORT JAMAICA NY TEL. NO. :</b>	
Consignee's Name and Address <b>IMI SYSTEMS LTD 64 BIALIK BLVD RAMAT HASHARON 47100, ISRAEL 515218436</b>		Consignee's Account Number		It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF THE CONTRACT ON THE REVERSE HEREOF. ALL GOODS MAY BE CARRIED BY ANY OTHER MEANS INCLUDING ROAD HEREON BY THE SHIPPER, AND SHIPPER AGREES THAT THE SHIPMENT MAY BE CARRIED VIA INTERMEDIATE STOPPING PLACES WHICH THE CARRIER DEEMS APPROPRIATE. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying supplemental charge if required.	
Issuing Carrier's Agent Name and City <b>INTERGLOBAL FORWARDING SERVICES INC 1A COLONY ROAD JERSEY CITY, NJ 07305</b>		Accounting Information <b>FILE# 02FFAE23111281 FLT # 0532 DATE 06 DEC 23 SHP REF 27211268 BILL IMIISR</b>			
Agent's IATA # <b>2747</b> <b>01-1-9839-0012/</b>		Account No.			
Airport of Departure (Addr. of First Carrier) and Requested Routing <b>J.F. KENNEDY AIRPORT</b>		Reference Number <b>PREPARED BY LINA</b>		Special Shipping Information	
To	By First Carrier	To	By	To	By
<b>TLV</b>	<b>C.A.L. CARGO AIR LIN</b>				
Airport of Destination <b>BEN GURION AIRPORT</b>		Requested Flight/Date <b>0532/06</b>		Amount of Insurance <b>XXX</b>	
Handling Information <b>DANGEROUS GOODS AS PER ASSOCIATED SHIPPER'S DECLARATION LOT # 020745 PO#27211268 SREF:81963331/81963333 TEL AVIV, ISRAEL OVERPACK USED</b>		INSURANCE - If carrier offers insurance, and such insurance is requested in accordance with the conditions thereof, indicate amount to be insured in figures in box marked "Amount of Insurance"		Declared Value for Customs <b>[REDACTED]</b>	
These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Ultimate destination <b>ISRAEL</b>		Diversions contrary to U.S. law prohibited		<b>SCI</b>	
No. of Pieces RCP	Gross Weight	Kg Lb	Rate / Charge	Total	Nature and Quantity of Goods (incl. Dimensions or Volume)
17 ECCNS: 0A505. 170 (48X48X37) In	4904.2	K	4904.5 / 4.80	23541.60	UN0044 PRIMERS, CAP TYPE CLASS 1.4S, P/I: 133 EX1987120142 OVERPACK USED HS#9603.30
AES X2023120166	1530				
17	4904.2			23541.60	
Prepaid		Weight Charge		Collect	
23541.60				DANGEROUS GOODS (C) 100.00 FUEL SURCHARGE (C) 1471.35 MANUAL MAWB INP (C) 12.00	
Valuation Charge		Tax		Total Other Charges Due Agent	
				1583.35	
Total Prepaid		Total Collect		Signature of Shipper or his Agent	
25124.95				<b>INTERGLOBAL FORWARDING SERVICES INC As Authorized Agent For Shipper OLIN CORP WINCHESTER DIV</b>	
Currency Conversion Rates		CC Charges in Dest. Currency		Executed on (date) <b>01 DEC 2023</b> at (place) <b>J.F. KENNEDY AIRPORT</b> Signature of Issuing Carrier or its Agent <b>LINA PEREIRA</b>	
For Carriers Use only at Destination		Charges at Destination		Total Collect Charges	
				700-74118203	

ORIGINAL (FOR SHIPPER)

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

(Provide at least two copies to the airline)

Shipper  
 IMI SYSTEMS  
 PDS FREIGHT SERVICES  
 230-59 ROCKAWAY BLVD  
 SPRINGFIELD GARDENS, NY 11413 USA

Air Waybill No. **700-7411-8203**  
 Page 1 of 1 Pages  
 Shipper's Reference Number 50513 / 020745  
*(optional)*

Consignee  
 IMI SYSTEMS LTD.  
 64 BIALIK BLVD.  
 RAMAT, HASHARON 47100,  
 ISRAEL



Two completed and signed copies of this Declaration must be handed to the operator

**WARNING**  
 Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.

**TRANSPORT DETAILS**  
 This shipment is within the limitations prescribed for *(delete non-applicable)*

PASSENGER AND CARGO AIRCRAFT	XXXXXXXXXX
	XXXXXXXXXX

Airport of Departure  
 JFK, NEW YORK, USA

Airport of Destination TEL-AVIV, ISRAEL

Shipment Type *(delete non-applicable)*  
 NON-RADIOACTIVE ~~RADIOACTIVE~~

**NATURE AND QUANTITY OF DANGEROUS GOODS**

Dangerous Goods Identification						
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Hazard)	Packing Group	Quantity and type of packing	Packing Inst.	Authorization
UN0044	Primers, cap type	1.4S		120 Fibreboard boxes x 1.04 kg NEW = 0.11 kg Overpack used x 17 #50413-01 - #50413-17 Total quantity per overpack 124.8 kg NEW = 13.20 kg	133	EX1987120142

**Additional Handling Information**  
 24-Hour Emergency Contact Telephone Number: INT'L: +1-703-527-3887 / DOMESTIC: 1-800-424-9300  
Chemtrec CCN206451 PDS FREIGHT  
 2,040 (4G) Fibreboard boxes in all OVER-PACKED onto 17 SKIDS for handling purposes.  
 Competent Authority Approval "EX1987120142" attached based on request from Olin Winchester LLC (p/n WMSRL/Q5614MUIMI)

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met.

Name of Signatory  
 AL BEATRICE  
 Date  
 November 27, 2023  
 Signature  
*(see warning above)*



U.S. Department  
of Transportation

East Building PH11-32  
1200 New Jersey Avenue, Southeast  
Washington, D.C. 20550

Pipeline and Hazardous  
Materials Safety Administration

The US Department of Transportation  
Competent Authority for the United States

**CLASSIFICATION OF EXPLOSIVES**  
**FIFTH REVISION**

Based upon a request by Olin Winchester, LLC, 600 Powder Mill Rd, East Alton, IL 62024-1273, US, the following items are classed in accordance with Section 173.56, Title 49, Code of Federal Regulations (49 CFR). A copy of your application, all supporting documentation and a copy of this approval must be retained and made available to DOT upon request.

An EX approval is non-transferable in any merger, acquisition, sale of assets, or other business transaction. For more information, please visit:  
[<https://www.phmsa.dot.gov/registration/faq-mergers-acquisitions-and-legal-status-changes-pdf>]

**U.N. PROPER SHIPPING NAME AND NUMBER:**

Primers, cap type, UN0044

**U.N. CLASSIFICATION CODE:** 1.4S

**REFERENCE NUMBER:**

EX1987120142

**PRODUCT DESIGNATION/PART NUMBER:**

P-7217-4 (D/N: P-7217-4, Rev P) (Q5608M,  
Q5603M, Q5613M, MQ5585M, Q5606M,  
Q5614MU, Q5614MUIMI, Q5614MUGOI),  
P-7217-35

NOTES: This classification is only valid when the cap-type primers are packaged as follows:

Inner Packaging - Trays, plastic with recessed cavities and fiberboard or plastic sleeve covers, each containing not more than one hundred (100) primers in a uniform segregated array.

Intermediate Packaging - Boxes, cardboard, each containing not more than ten (10) inner packagings.

Outer Packaging - UN 4G fiberboard box, each containing not more than five (5) intermediate packagings.

This revision supersedes all previous revisions.

**DATED:** May 29, 2019

for William Schoonover

Tracking No: 2019035038

Page 1 of 2

Associate Administrator for Hazardous Materials Safety



OLIN WINCHESTER, LLC  
 WINCHESTER INTERNATIONAL  
 EAST ALTON, ILLINOIS 62024-1273 U.S.A.

DUNS 081227882  
 Federal I.D. 82-3364878 QC Reg: 1222645910 (Repeat printout)

**EXPORT COMMERCIAL INVOICE**  
 (Factura Comercial De Exportacion)

SHIPMENT ORIGIN (Origen Del Embarque En EE. UU.)  
 East Alton, IL, US

INVOICE NO (Nro. De La Factura)	INVOICE DATE (Fecha Del Pedido)	CUST NO (Nro. Del Cliente)	CUST P O NO (Nro. Del Pedido)	ORDER DATE (Fecha Del Pedido)	OLIN REF. NO (Nro. De Ref. Olin)	OLIN DELIV. NO (Nro. De Entrega)
92260867	10/31/2023	15495	27211268	08/03/2020	1099988	81963331

BILL TO: (Facturado A)

CONSIGNED TO: (Consignado)

IMI SYSTEMS LIMITED  
 PLANT 72  
 64 BIALIK BLVD  
 47100 RAMAT HASHARON  
 STATE OF ISRAEL

IMI SYSTEMS LIMITED  
 PLANT 72  
 64 BIALIK BLVD  
 47100 RAMAT HASHARON  
 STATE OF ISRAEL

INSURANCE: (Seguro)  
 INSURANCE BY TRUCK LINE  
 TERMS: (Condiciones De Pago)  
 100% PREPAYMENT IN ADVANCE OF SHIPMENT

MARKS: (Marcas)  
 IMI SYSTEMS LIMITED  
 PLANT 72, 64 BIALIK BLVD  
 47100 RAMAT HASHARON, ISRAEL  
 P.O.#: 27211268 | WIN#: 1099988  
 MADE IN U.S.A.

BANK: (Banco)

SHIPPED VIA: (Embarcado Por)  
 OLD DOMINION FREIGHT LINES TO G&B PACKING

IMPORT LICENSE NO: (Nro. Del Permiso De Importacion)

QUANTITY (Cantidad)	MATERIAL (Moledo)	DESCRIPTION (Descripcion)	UNIT PRICE (Precio PU)	AMOUNT (Valor)
<b>CENTERFIRE PRIMERS-RIFLE (FULMINANTES DE FUEGO CENTRAL-RIFLES)</b>				
3,130,000.0 PC	WMSRL	41 UNPLTD PARA RETAIL PRM CFLCAP	██████████ / 1 TH	██████████
7,070,000.00	WMSRL	41 UNPLTD PARA RETAIL PRM CFLCAP	██████████ / 1 TH	██████████
<b>SUBTOTAL:</b>	<b>10,200,000 UNITS</b>	██████████		
<b>TOTAL PRODUCT VALUE</b>			<b>USD</b>	██████████



OLIN WINCHESTER, LLC  
 WINCHESTER INTERNATIONAL  
 EAST ALTON, ILLINOIS 62024-1273 U.S.A.

(Repeat printout)

**EXPORT COMMERCIAL INVOICE**  
 (Factura Comercial De Exportacion)

SHIPMENT ORIGIN (Origen Del Embarque En EE. UU.)  
 East Alton, IL, US

INVOICE NO (Nro. De La Factura)	INVOICE DATE (Fecha Del Pedido)	CUST NO (Nro. Del Cliente)	CUST P O NO (Nro. Del Pedido)	ORDER DATE (Fecha Del Pedido)	OLIN REF. NO (Nro. De Ref. Olin)	OLIN DELIV. NO (Nro. De Entrega)
92260867	10/31/2023	15495	27211268	08/03/2020	1099988	81963331

ABOVE PRICES ARE EXW, EAST ALTON, ILLINOIS USA (INCOTERMS 2020) WITH SELLER TO LOAD CUSTOMER'S NOMINATED CARRIER

\*\*\*\*\*

REMIT PAYMENT BY WIRE TRANSFER TO:  
 BANK OF AMERICA  
 OLIN WINCHESTER, LLC  
 CHICAGO, IL 60693  
 ABA # 111000012  
 ACCOUNT # 3751606802

SWIFT CODE: BOFAUS3NXXX

\*\*\*\*\*

SCHEDULE B#: 9306.30.8000 (WMSRL)

\*\*\*\*\*  
 THIS CONTRACT SHALL BE GOVERNED BY, INTERPRETED, AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, EXCEPT THAT THE UNITED NATIONS CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS SHALL NOT APPLY TO THIS CONTRACT.  
 \*\*\*\*\*

THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF, TO ANY OTHER COUNTRY OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.

COUNTRY OF ULTIMATE DESTINATION: ISRAEL  
 END-USER: ISRAEL  
 U.S. COMMERCE DEPT. LICENSE: D1209894

\*\*\*\*\*  
 I, THE UNDERSIGNED, HERBY DECLARE THAT UNLESS OTHERWISE INDICATED, THE GOODS COVERED BY THIS DOCUMENT FULLY COMPLY WITH THE RULES OF ORIGIN AND THE OTHER PROVISIONS OF THE AGREEMENT ON THE ESTABLISHMENT OF A FREE TRADE AREA BETWEEN THE GOVERNMENT OF ISRAEL AND THE GOVERNMENT OF THE UNITED STATES OF AMERICA.

- (X) THE EXPORTER (WHETHER THE EXPORTER IS THE PRODUCER OR NOT.)
- (X) THE PRODUCER (IS NOT THE EXPORTER.)



Packing List



EAST ALTON, ILLINOIS 62024-1273  
TELEPHONE (618) 258-2000

CUSTOMER NUMBER	CUSTOMER ORDER NO.	BILL OF LADING NO.	PACKING LIST NO.	DATE PACKED	PAGE NO.
0000015495	27211268	0962488	0081963331		1

**Bill-To:**  
IMI SYSTEMS LIMITED  
PLANT 72  
64 BIALIK BLVD  
  
RAMAT HASHARON, 47100

**Ship-To:**  
IMI SYSTEMS LIMITED  
PLANT 72  
64 BIALIK BLVD  
  
RAMAT HASHARON, 47100

**SHIP VIA:** FGES

PRODUCT IDENTIFICATION			PACKING DETAIL			SHIPPING DETAIL		B-L CLASS
DESCRIPTION	LOT NUMBER	SYMBOL	SHIPPING UNIT	NUMBER OF SHIPPING UNITS	NO. OF PIECES PER UNIT	TOTAL BOXES SHIPPED	TOTAL PIECES SHIPPED	
41 UNPLTD PARA RETAIL PRM CF LCAP	----	WMSRL	CS	626	5000	31300	3130000	C1

GROSS WEIGHT OF THIS ORDER IN KILO = 1,364.00

TOTAL NET CUBE IN FEET OF THIS ORDER = 120.00

SHIPPING UNIT  
LEGEND

BG= BAG

BX= BOX

CS= CASE

DR= DRUM

PL= PALLET

PI= PIECE

FULL CASES THIS  
ORDER

626

MIXED CASES THIS  
SHIPMENT

0

WEIGHT THIS ORDER  
EXCLUDING PALLETS

3,005



Packing List



EAST ALTON, ILLINOIS 62024-1273  
TELEPHONE (618) 258-2000

CUSTOMER NUMBER	CUSTOMER ORDER NO.	BILL OF LADING NO.	PACKING LIST NO.	DATE PACKED	PAGE NO.
0000015495	27211268	0962488	0081963333		2

**Bill-To:**  
IMI SYSTEMS LIMITED  
PLANT 72  
64 BIALIK BLVD  
  
RAMAT HASHARON, 47100

**Ship-To:**  
IMI SYSTEMS LIMITED  
PLANT 72  
64 BIALIK BLVD  
  
RAMAT HASHARON, 47100

**SHIP VIA:** FGES

PRODUCT IDENTIFICATION			PACKING DETAIL			SHIPPING DETAIL		B-L CLASS
DESCRIPTION	LOT NUMBER	SYMBOL	SHIPPING UNIT	NUMBER OF SHIPPING UNITS	NO. OF PIECES PER UNIT	TOTAL BOXES SHIPPED	TOTAL PIECES SHIPPED	
41 UNPLTD PARA RETAIL PRM CF LCAP	----	WMSRL	CS	1414	5000	70700	7070000	C1

GROSS WEIGHT OF THIS ORDER IN KILO = 3,079.00

TOTAL NET CUBE IN FEET OF THIS ORDER = 270.00

SHIPPING UNIT  
LEGEND

BG= BAG

BX= BOX

CS= CASE

DR= DRUM

PL= PALLET

PI= PIECE

FULL CASES THIS ORDER	1414	MIXED CASES THIS SHIPMENT	0	WEIGHT THIS ORDER EXCLUDING PALLETS	6,787
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Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS, Australian WorkSafe, Japanese Standard JIS Z 7250:2000, and EU REACH Regulations

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **PRIMERS – CENTERFIRE**

CAS Number: Mixture – Metal Alloy  
Synonyms: #1 ½, 108, WSP, #1 ½ M, 108H, WSPM, #6 ½, 116, WSR, 116M-282A, #7, 111, WLP, #8 ½, 120, WLR, #8 ½ M, 120H, WLRM, #34 Primer, #41 Primer, 50 Cal Primer, M29A1C Primer, M35C Primer, M42C1 Primer, WMGSP, WMGLP, WMGSR, WMGLR.

Product Use: Small Arms Ammunition Primer  
U.N. Number: UN 0044; UN 0378  
U.N. Dangerous Goods Class: Explosive, 1.4S; Explosive, 1.4B  
Manufacturer/Responsible Party: Olin Winchester, LLC  
Manufacturers' Address: 600 Powder Mill Road, East Alton, IL 62024 [www.winchester.com](http://www.winchester.com)

Emergency Telephone Number: US/Canada: 1-800-424-9300  
Outside US/Canada: 703-527-3887

SDS Control Group: 618-258-3507 (Technical Information Only)

Olin SDS No.: 00060.0001

Issue Date: 6/1/15

Revision Date: 01/04/2022

Revision No.: 7

## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: EXPLOSIVE. KEEP AWAY FROM HEAT. DO NOT SUBJECT TO MECHANICAL SHOCK. PARTICLES FROM FIRING MAY BE HARMFUL IF INHALED. DO NOT TAKE INTERNALLY.

US DOT SYMBOLS

CANADA (WHMIS) SYMBOLS

GHS HAZARD SYMBOLS

This Product is not subject to WHMIS

Class 6 Explosive



**GHS Classifications:**

Explosive Division 1.4  
STOT RE Category 1  
Carcinogenicity Category 1A  
Reproductive Toxicity Category 1A  
Aquatic Environment, Chronic II

**Signal Word:**

Danger

**Hazard Statements :**

H204: Fire or projection hazard  
H372: Causes damage to nervous system, kidney, and hematopoietic system through prolonged or repeated exposure  
H360: May damage fertility or the unborn child  
H411: Toxic to aquatic life with long lasting effects

**Target organs:**

Nervous, renal and hematopoietic systems

**Precautionary Statements:**

P102: Keep out of reach of children  
P210: Keep away from heat/sparks/open flame/hot surfaces – No smoking  
P240: Ground container and receiving equipment  
P250: Do not subject to shock/impact/excessive force/friction/static electricity/mishandling  
P260: Do not breathe dust  
P264: Wash hands thoroughly after handling  
P270: Do not eat, drink or smoke when using this product  
P271: Use only outdoors or in a well-ventilated area  
P273: Avoid release to the environment  
P280: Wear eye protection  
P370+P380: In case of fire: Evacuate area  
[if 1.4B] P373: Do NOT fight fire when fire reaches explosives  
[if 1.4S] P374: Fight fire with normal precautions from a reasonable distance  
P410: Store in accordance with local regulations  
P501: Dispose of contents in accordance with local regulations

**GHS Pictograms:**

Explosive; Pictogram; exploding bomb  
Specific Target Organ Toxicity; Pictogram Code: GHS08  
Environment; Pictogram Code: GHS09

**EU Classifications:**

Hazard Symbols  
Risk Phrases

E, T, N  
 R2: Risk of explosion by shock, friction, fire or other sources of ignition  
 R45 (Category 1): May cause cancer  
 R48: Danger of serious damage to health by prolonged exposure  
 R60: May impair fertility  
 R63: Possible risk of harm to the unborn child  
 R51/53: Toxic to aquatic organisms and many cause long-term adverse effects in the aquatic environment  
 S2: Keep out of reach of children  
 S20/21: When using do not eat, drink or smoke  
 S39: Wear eye/face protection  
 S43: In case of fire, use Class A equipment  
 S61: Avoid release to the environment

**Health Hazards or Risks From Exposure**

This product is composed of a metal capsule which contains the various components completely sealed within. Therefore, under normal handling of this product, no exposure to any harmful materials will occur. When the product is fired, a small amount of particles may be generated which may be slightly irritating to the eyes and the respiratory tract. The particles may contain trace amounts of these harmful substances:

**Lead:** Ingestion of large amounts of lead can cause abdominal pain, constipation, cramps, nausea and/or vomiting. Chronic exposure to lead can cause kidney damage, anemia, reproductive effects, developmental effects and permanent nervous system damage in humans including changes in cognitive function. Occupational exposure to lead is associated with lung and stomach cancer. Lead is classified as a probable human carcinogen.

**Copper:** Inhalation of high concentrations of metallic copper dusts or fumes may cause nasal irritation and/or nausea, vomiting and stomach pain.

**Antimony sulfide:** Inhalation of high concentrations may cause dizziness, headache, and nausea. Workers chronically exposed to high concentrations of antimony sulfide have developed heart and blood effects.

**Barium nitrate:** Ingestion of large doses of soluble barium compounds can cause cyanosis, skeletal muscle paralysis, respiratory arrest, irregular heartbeat and hypertension.

It is unlikely that the amount of particles that someone would be exposed to from firing would be sufficient to cause any of these effects.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Components	% By Weight	CAS Number	EINECS/ ELINCS #
Copper	55 - 96	7440-50-8	231-159-6
Zinc	10 - 55	7440-66-6	231-175-3
Lead styphnate	4 - 5	15245-44-0	239-290-0
Barium nitrate	3 - 3.5	10022-31-8	233-020-5
Antimony sulfide	1 - 5	1345-04-6	215-713-4
Lead thiocyanate	0 - 0.6	592-87-0	209-774-6

**4. FIRST AID MEASURES**

**Eye Contact:** Immediately flush out fume or particles with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation develops, call a physician at once.

**Skin Contact:** Wash skin with plenty of soap and water.

**Inhalation:** If symptoms of lung irritation occur (coughing, wheezing or breathing difficulty), remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep affected person warm and at rest. Get medical attention.

**Ingestion:** If ingested, immediately call a physician.

Medical Conditions Aggravated By Exposure:

There are no medical conditions known to be aggravated by exposure to this product in its solid form. Exposure to lead can aggravate anemia, cardiovascular and respiratory disease.

Recommendations To Physicians:

Remove from exposure, if possible, and treat symptoms

5. FIRE FIGHTING MEASURES

PROPERTY	VALUE	PROPERTY	VALUE
Explosive	Yes	Flammable	Not applicable
Combustible	Not applicable	Pyrophoric	No
Flash Point (°C):	Not applicable	Burning Rate of Material:	Not applicable
Lower Explosive Limit:	Not applicable	Autoignition Temp.:	No data
Upper Explosive Limit:	Not applicable	Flammability Classification: (defined by 29 CFR 1910.1200)	Explosive

Unusual Fire and Explosion Hazards:

Extinguishing Media:

Special Firefighting Procedures:

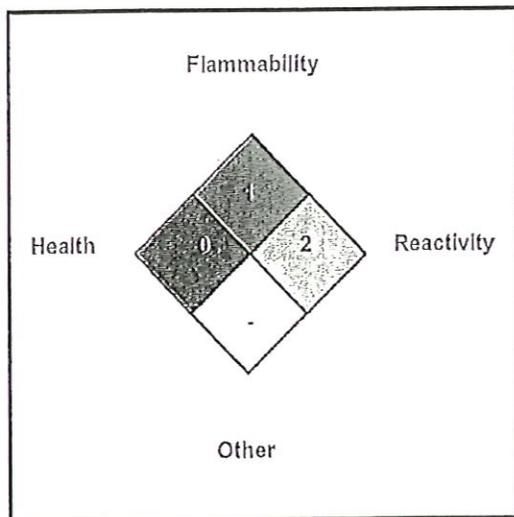
Possible projection hazard.  
Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used.  
Do not fight fire when fire reaches cargo. Cargo may explode.

Firefighters must wear self-contained breathing apparatus (SCBA) and full protective equipment. Structural firefighters' protective clothing will provide protection.

Isolate materials not yet involved in the fire. Move containers from fire area if possible; otherwise, cool with carefully applied water spray.

Prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas, if practical.

NFPA RATING SYSTEM



HMIS RATING SYSTEM

HEALTH HAZARD (BLUE)		0*	
FLAMMABILITY HAZARD (RED)		1	
PHYSICAL HAZARD (YELLOW)		2	
PROTECTIVE EQUIPMENT			
EYES	PPE CODE	RESPIRATORY	HEARING
	A	See Sect 8	See Sect 8

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## 6. ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 800-424-9300.

Spill Response: A spill of this material will normally not require emergency response team capabilities. If, however, a large spill occurs, call 1-888-289-1911 for technical assistance.

Accidental Release Procedures: Spills of this material should be handled carefully. Do not subject materials to mechanical shock. Collect material and place in a designated, labeled waste container. See Section 13 for waste disposal.

## 7. HANDLING AND STORAGE

Precautions for Safe Handling: Use appropriate personal protective equipment (see Section 8). Workers should wash hands thoroughly after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored.

Conditions for Safe Storage: Store in accordance with local regulations. Store in original containers in a cool, dry location away from Acids, Class A & B explosives, strong oxidizers, and caustics. Avoid mechanical impact or shock and electrical discharge.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

CAS #	CHEMICAL NAME	ACGIH TLV	OSHA PEL	INTERNATIONAL OELS
7440-50-8	Copper	0.2 mg/m <sup>3</sup> (fume), 1 mg/m <sup>3</sup> (dusts and mists)	0.1 mg/m <sup>3</sup> (fume) 1 mg/m <sup>3</sup> (dusts and mists)	Austria, Belgium, Canada: 0.2 mg/m <sup>3</sup> (fumes), 1 mg/m <sup>3</sup> (dusts) Denmark: 1.0 mg/m <sup>3</sup> (dust and powder) Germany (MAK): 0.1 mg/m <sup>3</sup> (fume), 1 mg/m <sup>3</sup> (dusts and mists)
7440-66-6	Zinc	None established	None established	None established
15245-44-0	Lead styphnate	None established	None established	None established
10022-31-8	Barium nitrate	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>	Germany (MAK): 0.5 mg/m <sup>3</sup> (I), Peak = II (2) Austria, Belgium, Denmark, Finland, Hungary, Netherlands, Poland, Switzerland, U.K.: 0.5 mg/m <sup>3</sup>
1345-04-6	Antimony sulfide	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>	Austria, Belgium, Denmark, France, Finland, Germany, Hungary, Netherlands, Norway, Poland, Sweden, UK: 0.5 mg/m <sup>3</sup>
592-87-0	Lead thiocyanate	None established	None established	None established

Engineering Controls: Local exhaust ventilation is recommended if significant dusting occurs or fumes are generated. Otherwise, use general exhaust ventilation.

Respiratory Protection: Not normally needed. Maintain airborne contaminant concentrations below guidelines listed above. Use an appropriate approved air-purifying respirator equipped with HEPA cartridges/canisters where there is the potential for exceeding established occupational exposure limits.

Eye/Face Protection: Use safety glasses.

Hand Protection: Not normally needed.

Skin Protection: Not normally needed.

Hearing Protection: Not normally needed. During firing use hearing protection.

General Hygiene: Do not eat, drink, or smoke while using this product. Wash hands thoroughly after use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	VALUE	PROPERTY	VALUE
Appearance:	Brass cup assembly	Physical State:	Solid
Odor:	None	Odor Threshold:	None
Boiling Point (°F):	Not applicable	Melting point:	Not applicable
Vapor Pressure (mm Hg):	Not applicable	Freezing point:	Not applicable
Vapor Density (air = 1):	Not applicable	Bulk Density:	Not applicable
Specific gravity (g/cc):	Not applicable	Viscosity (cps):	Not applicable
pH:	Not applicable	Decomposition Temperature:	82°C (180°F)
Solubility in Water (20 °C):	Insoluble	Evaporation Rate:	Not applicable
Volatiles, Percent by volume:	Not applicable	Octanol/water partition coefficient:	Not applicable

## 10. STABILITY AND REACTIVITY

<u>Stability:</u>	Stable under normal temperatures and pressure.
<u>Possibility of Hazardous Reactions:</u>	Hazardous polymerization will not occur
<u>Incompatible Materials:</u>	Acids, Class A & B explosives, strong oxidizers, caustics and ammonia
<u>Hazardous Decomposition Products:</u>	Nitrogen oxides, carbon monoxide, lead oxides, carbon dioxide, lead dust/fume
<u>Conditions to Avoid:</u>	Will detonate with mechanical impact or shock; avoid physical damage (puncture) of containers. Avoid contact with incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

Potential Routes of Entry: Inhalation, Skin, and by Ingestion.

The physical nature of this product makes absorption from any route unlikely. A small amount of inhalable particles may be created when cartridge is fired.

Effects Of Acute Exposure:

PRODUCT		COMPONENTS					
		Lead styphnate	Lead thiocyanate	Barium nitrate	Antimony sulfide	Copper	Zinc
Inhalation LC <sub>50</sub>	Particles generated from firing may be slightly toxic	No data	No data	No data	No data	No data	No data
Skin Contact LD <sub>50</sub>	Skin absorption unlikely	No data	No data	No data	>139 mg/kg, sc	375 mg/kg, sc (rabbit)	No data
Ingestion LD <sub>50</sub>	Ingestion unlikely	No data	No data	355 g/kg (rat)	209 mg/kg, lp (mouse)	3.5 mg/kg, lp (mouse)	No data
Irritation	Particles generated from firing may be slightly irritating to the eyes	No data	No data	Eye and skin irritant	Eye, skin and respiratory irritant	Respiratory irritant	Eye irritant
Sensitization	Sensitization to this Product has not been reported	No data	No data	No data	No data	No data	No data

Other Adverse Effects:

<u>Target Organ Toxicity:</u>	No reported target organ toxicity from this product. Lead has caused nervous system, kidney and hematopoietic system damage in humans and laboratory animals.
<u>Reproductive Toxicity:</u>	This product is not known or reported to cause reproductive effects. Lead has been shown to reduce male reproductive function in humans and laboratory animals.
<u>Teratogenicity (Birth Defects):</u>	This product is not known or reported to cause developmental toxicity. Lead has been shown to affect fetal development including birth defects.
<u>Mutagenicity:</u>	This product is not known or reported to be mutagenic. Lead has been shown to be mutagenic in several <i>in vitro</i> assays.
<u>Carcinogenicity:</u>	IARC and US EPA list lead and lead compounds as probable human carcinogens (Group 2A) based on sufficient evidence from animal studies and limited evidence from human studies (epidemiology). NTP classifies lead and lead compounds as reasonably anticipated to be human carcinogens.

## 12. ECOLOGICAL INFORMATION

Environmental Effects:

PRODUCT: Product has not been tested for environmental properties.

COMPONENTS:

Copper: Copper concentrations from 0.1 to 1.0 mg/l have been found to be not toxic for most fish. However, concentrations of 0.015 to 3.0 mg/l have been reported as toxic, particularly in soft water to many kinds of fish, crustacea, mollusks, insects, and plankton.

Lead: LC 50 (48 hrs.) to bluegill is reported to be 2-5 mg/l. Lead is toxic to waterfowl.

Zinc: The following concentrations of zinc have been reported as lethal to fish: 0.13 mg/l, for 12 – 24 hours to Rainbow trout fingerlings; 1.9 – 3.6 mg/l, 6 hr TLM (soft water, 30°C) to Bluegill Sunfish; 4 mg/l, 3 days (hard water) to Rainbow trout; 1 mg/l, 24 hours (soft water) to Sticklebacks.

The presence of copper appears to have a synergistic effect on the toxicity of zinc towards fish.

Environmental Fate:

MOBILITY: Released lead may migrate through soil.  
 PERSISTANCE/DEGRADABILITY: Not biodegradable. Released lead may accumulate.  
 BIOACCUMULATION: No data

## 13. DISPOSAL CONSIDERATIONS

Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding the treatment, storage and disposal for hazardous and nonhazardous wastes.

## 14. TRANSPORT INFORMATION

Regulatory Information for US DOT, IATA, IMO, and ADR:

Proper Shipping Name: Primers, Cap Type

Hazard Class Number and Description: Explosive 1.4S or 1.4B

UN Identification Number: UN 0044 or UN 0378

Packing Group: PGII

DOT Label(s) Required: Explosive 1.4

Marine Pollutant: None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

Additional Information:

North American Emergency Response Guidebook Number (2004): 114

U.S. DEPARTMENT OF TRANSPORTATION SHIPPING REGULATIONS: This product is classified as dangerous goods under 49 CFR 172.101. Note: May be reclassified domestically as an ORM-D if packaged as a consumer commodity per 49 CFR 173.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This product is classified as Dangerous Goods.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA): This product is classified as Dangerous Goods.

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION: This product is classified as Dangerous Goods.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is classified by the United Nations Economic Commission for Europe to be dangerous goods.

## 15. REGULATORY INFORMATION

US FEDERAL

TSCA	The components of this product are listed on the Toxic Substance Control Act inventory.				
CERCLA:	Antimony, R.Q.* = 5000 lbs.; Copper, R.Q. = 5000 lbs.; Zinc, R.Q. = 1000 lbs.; Lead thiocyanate, R.Q. = 10 lbs. (No reporting is required if diameter of the pieces of metal is equal to or exceeds 100 micrometers (0.004 inches).				
SARA 313:	Antimony compounds, Barium compounds, Copper, Lead and Lead compounds, Zinc (fume or dust)				
SARA 311/312:	<u>Health:</u>	Acute – No Chronic - No	<u>Fire:</u> No	<u>Reactivity:</u> None	<u>Release of Pressure:</u> Yes
SARA 302 EHS List:	None of the components of this product are listed.				

\*RQ = Reportable Quantity

STATE RIGHT-TO-KNOW STATUS

Component	California	New Jersey	Pennsylvania	Massachusetts	Michigan
Copper	Not listed	X	X	X	X
Zinc	Not listed	X	Not listed	X	X
Antimony sulfide	Not listed	Not listed	Not listed	Not listed	Not listed
Barium nitrate	Not listed	Not listed	X	X	Not listed
Lead thiocyanate	X	Not listed	Not listed	X	Not listed
Lead styphnate	X	Not listed	Not listed	X	Not listed

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65)

Warning! This product contains detectable amounts of a chemical known to the State of California to cause cancer and/or birth defects or other reproductive harm.

GHS CLASSIFICATION

Explosive Division 1.4  
 STOT RE Category 1  
 Carcinogenicity Category 1A  
 Reproductive Toxicity Category 1A  
 Aquatic Environment, Chronic II

EUROPEAN REGULATIONSHazard Classification

Danger Symbols: E, T, N

Risk Phrases: R2, R48, R60, R63, R51/53

Safety Phrases: S2, S15, S20/21, S22, S39, S51, S61

German WGK Classification: Not known.

CANADIAN REGULATIONS

DSL/NDL Inventory: The components of this product are on the DSL

IDL: Antimony compounds, Barium nitrate, Copper

CEPA PRIORITIES LIST: None of the components of this product are listed

WHMIS: This product is not subject to WHMIS. It is regulated as a Class 6 Explosive in Canada.

JAPANESE REGULATIONS

Existing National Inventory of Chemical Substances (ENCS): The components of this product are listed

Japanese Priority Assessment Chemical Substances: None of the components of this product are listed

OTHER INTERNATIONAL CHEMICAL INVENTORIES

Swiss Giftliste List of Toxic Substances: All Components Listed  
Australian Inventory (AICS): All Components Listed

16. OTHER INFORMATION

REVISIONS: 06

DATE: 01/04/2022

PREPARED BY: Olin Winchester, LLC

OTHER: Additional information available from: [www.winchester.com](http://www.winchester.com)

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